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# FISH CONSUMPTION in CANADA

... 1945, 1840 and 1941





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### FISH CONSUMPTION

IN

CANADA

(A Statistical Report for 1945, 1946 and 1947)

May 1948.

Jean B. Tousignant, Department of Fisheries, Ottawa.

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#### INTRODUCTION

The purpose of the present statistical report is to show the domestic consumption of fish, by species and by products, as far as the statistics on hand will allow. By species, separate figures are shown for cod, haddock, salmon, halibut, herring (including sardines), pilchards, mackerel, lobster, lake trout, sauger, tullibee and whitefish. There remain three general classes given as "other shellfish", "other sea-fish" and "other fresh-water fish".

The main groups of products are:

1. Fresh and frozen fish - which, in the case of sea fish, were separated into round (or dressed) and filleted;

2. Fresh and frozen shellfish;3. Smoked fish - divided into "split" and "fillets", for cod and haddock;

4. Wet-salted and dried fish - "split" and "fillets";

Pickled fish - all forms, including "vinegar cured";

6. Canned fish and shellfish.

The calculation of the domestic consumption of fish has been based upon production, holdings, export and import fisheries statistics of Canada. Fish holdings at the beginning of the year and imports for the current year have been added to the Canadian fisheries production, resulting in the total supply; stocks at the end of the year and exports for the current year have been substracted from the total supply, resulting in the domestic supply used as food in Canada (domestic consumption).

The production figures -- were taken from the "Fisheries Statistics of Canada" as published by the Dominion Bureau of Statistics, for 1945; for 1946, they were supplied by the Dominion Bureau of Statistics previous to their publication; however landings of fresh-water fish have been estimated from export figures; for 1947, production figures were preliminary.

Statistics on stocks, at the beginning and at the end of the year, were derived from various sources: for fresh and smoked fish, figures were available in the "Cold Storage Holdings, Fishery Products" as published by the Dominion Bureau of Statistics; in the case of salted and pickled fish they were compiled by the Department of Fisheries for the years concerned. It was necessary to estimate the stocks of canned fish.

Estimates for stocks of canned fish, at the beginning and at the end of the year, were arrived at as follows; export figures. from January to June inclusive, were taken for salmon, pilchards. and haddock, as the new production for these species normally begins in June and is not of importance in that Month; export figures, from January to May inclusive were used for canned lobster, as new production begins normally in May and is of importance in June only; export figures from January to March inclusive were taken for sardines (little fish in oil), clams and other seafish; for canned herring, exports for the first six months of the year, less production for the same months, were taken as an estimate of the stocks. It will be understood that, the stocks of canned fish, at the beginning of 1948 had to be estimated differently and estimates were based mainly on current information. In all instances, the stocks of canned fish show minimum figures.

Export and import statistics used are those published by the Dominion Bureau of Statistics, except for import figures from Newfoundland on fresh fish as well as on salted cod and related species. It was found that landings by Newfoundland boats in Canadian ports were shown as imports in Canadian trade statistics. Since such landings were included in Canadian fisheries production statistics, Newfoundland's export statistics to Canada, which would not include landings as above mentioned, were used to account for our imports of fish from Newfoundland.

The calculation of the domestic consumption of fish has been worked out in terms of product weight (lbs) which is the weight in the form in which the fish is marketed. However, as the production figures for canned fish were given in cases, they were converted to pounds by using the factors that appear in Appendix, under 1; wet salted fish was adjusted to a dried basis. The quantities on fish consumption appear in product weight and also in edible weight. The "edible weight" was determined as follows: fillet weight, wet basis, for fresh, frozen and cured fish; shucked weight, for shellfish (meat, for lobster) and product weight for canned fish. The factors used for conversion from "product" to "edible" weight appear in Appendix, under 2. All figures on per capita fish consumption refer to the edible weight.

Fish consumption in Canada has been widely quoted as being 8.4 pounds per person in 1945; this was preliminary figure, however, and should now be revised. It will be understood of course that in the calculations that follow some figures are still preliminary, particularly those for 1947.

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## I - SUMHARY 1945 - 47

During the war years, important changes took place in the food supply of many countries, resulting in a nutritional pattern different from that of the prewar period. In many instances, the prewar position has not been restored. To limit our observations to countries for which we have adequate information: the United Kingdom had undergone an important transformation in its nutritional pattern; the United States and Canada were not so severely affected but found it necessary to control the distribution of many food products. The decrease in the supplies of animal protein in the United Kingdom during the war resulted in the setting aside of a considerable portion of the Canadian production for that market, and this undoubtedly reduced the quantities available for home consumption. The wartime period of controls and rationing affected the Canadian consumption of fish in other ways as well, both directly and indirectly, so that, in fact, the demand for this product in Canada is only now returning to normal.

The total "disappearance" of fish food products in Canada, in terms of product weight, was 189 million pounds in 1945, the last war year. In 1946, the figure rose to 217 million pounds and slipped back to 210 million pounds in 1947 (for figures on various groups of products, see table 1, p.4). The latter movement probably was related to the increase in meat supplies, but there is evidence that it was connected also with the reduction in the availability of fresh and frozen fillets in that year.

If the above figures are compared with those of Canadian production (see table 2, p.4), it will be found that they account for about 30 per cent of the total quantity produced. However, the percentage varies among the several groups of products, being about 40% for fresh and frozen fish, 19% for salted and smoked fish. In the case of canned fish products, the group most affected by the wartime factors mentioned above, the proportion has increased significantly during the past three years, from 11% in 1945 to 31% in 1946 and 33% in 1947. Our consumption of fish also includes imported products but these, negligible during the war, are still of minor importance: only a little more than five percent of the total disappearance of canned fish consists of imported categories.

The consumption of fresh and frozen fish in 1945 and 1946 appears to be close to what it was in the prewar period. However, according to the preliminary estimates for 1947, there was a sizeable decrease in the consumption of these products in that year, amounting to 14 million pounds less than in 1946, or 8 million pounds less than in 1945. To take a specific case, our figures indicate that the consumption of fresh and frozen cod fillets amounted to some 20 million pounds in 1945 and 1946, whereas the 1947 figure would probably be not more than 11.5 million pounds. In this connection, it will be recalled that the landings of cod showed a decline of 100 million pounds in 1947 as compared with 1946 and that the production of cod fillets decreased from 53 million pounds in 1945 and 1946 to 22 million pounds in 1947. It is thought that reduced production largely influenced the consumption on the domestic market.

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The increasing importance of the canned product is the outstanding development in domestic fish consumption trends of the last few years. Canned salmon was the chief item contributing to this development, moving from approximately 200,000 cases in 1945 to 430, 000 in 1946 and 750,000 in 1947. (The low figure for 1945 was due to the wartime restrictions designed to make large quantities available for export). In this calculation, however, it was not possible to take into account the quantities of canned products in stock at wholesale and retail levels and it is likely that the quantities shown as consumed domestically should be shifted slightly and possibly reduced for 1947 in view of the fact that a part of these shipments went into the rebuilding of stocks at wholesale and retail levels.

With the exception of a few items, cured or partially cured fish enjoys only a very small outlet on the Canadian market.

The per-capita consumption of fish by types of products is given in table A below. The quantities in this table appear in terms of edible weight for this permits a direct comparison between different groups of products and indicates more clearly their relative importance to consumption. In terms of product weight, the total figure would be appreciably higher; the total for "smoked, salted, etc." would be slightly increased; the total for "fresh and frozen" would be nearly doubled; but the total for canned products would not be changed.

Table A

CANADA: PER CAPITA FISH CONSUMPTION, BY GROUPS OF PRODUCTS, 1945-47

Marketed Forms	1945	1946	1947
Fresh and Frozen -	lb.	lb.	lb.
Sea fish, round or dressed Sea fish, filleted Fresh-water fish Shellfish Sub-total	3.2 2.0 1.0 0.3 (6.5)	3.0 2.7 0.8 0.3 (6.8)	3.0 1.4 0.8 0.3 (5.5)
Cured - Smoked Pickled (in brine) Salted and dried Sub-total	0.7 0.5 0.5 (1.7)	0.7 0.5 0.8 (2.0)	0.5 0.5 0.3 (1.3)
Canned	1.7	3.1	4.0
TOTAL	9.9	11.9	10.8

Note: These figures are on "edible weight basis".

The fish consumed as fresh and frozen (round or dressed) is made up, in order of importance, of salmon (more than a third of the total), cod, halibut, haddock, etc. Cod accounts for two-thirds or more of the filleted fresh and frozen sea fish and whitefish ranks first in the group of fresh-water fish.

Cod fillets is the main product consumed in the smoked form, though considerable amounts of smoked split herring (i.e. kippers) are also used. The salted fish consumed is mainly cod (wet-salted and filleted). Our consumption of pickled fish is made up mainly of herring.

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Among canned products for domestic consumption 1947, salmon accounted for almost three pounds per person, herring and sardines for somewhat under one pound.

Though the per capita consumption of fish in Canada is now close to prewar levels, it is still low in comparison with the per capita consumption of other animal proteins (table B, below). It is possible that fish consumption could be increased substantially without seriously affecting the consumption of other competing foods.

Table B

CANADA: PER CAPITA CONSUMPTION OF MEAT. POULTRY, EGGS AND FISH, 1945-47

	Prewar	1945	1946	1947
	(lbs.)	(lbs.)	(lbs.)	(lbs.)
Meat (1) Poultry (2) Eggs (3) Fish (4)	117.9 18.4 30.7 11.9	141.7 25.9 33.7 9.9	145.5 21.8 33.2 11.9	144.8 21.3 32.8 10.8

- (1) Carcass weight for most meat products.
- (2) Dressed weight.
- (3) Shell egg equivalent.

(4) Edible weight.

According to available statistics, fish consumption in Canada is quite on a level with that in the United States: but it is considerably below that of the United Kingdom (see table C, below). Some European countries such as Norway have an even greater per capita consumption.

Table C

PER CAPITA FISH CONSUMPTION IN CANADA AND IN THE UNITED KINGDOM (EDIBLE WEIGHT). 1945-47

	Prewar	1945	1946	1947
	(lbs.)	(1bs.)	(lbs.)	(lbs.)
Canada United Kingdom	11.9	9.9 24.6	11.9	10.8

(1) 1946-47 provisional figure.

However, in making comparisons of this kind, we must take into account the varying conditions of supply and distribution in the different countries. In Canada, the great distances that separate the primary producers from the bulk of the consumers create a transportation problem that is altogether unknown in most of the other countries mentioned. Nevertheless, the extent of the consumption of fish in these countries points to the possibility of increasing Canadian consumption levels. This may come about if the products reaching the consumer can be improved, so that fish may be able to compete more reachily with agricultural and other food products.

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TABLE 1- CANADA: TOTAL CONSUMPTION OF FISH, BY GROUPS OF PRODUCTS,

Marketed Forms	1945	1946	1947
	('000 lb)	('000 lb)	('000 lb)
Fresh and frozen - Sea fish, round or dressed Sea fish, filleted Fresh-water fish Shellfish Sub-total	85,204 23,924 25,995 15,148 (150,271)	82,782 32,706 24,511 16,874 (156,873)	84,050 17,727 24,044 17,490 (143,311)
Cured - Smoked Salted and dried Pickled (in brine) Sub-total	8,299 4,300 6,420 (19,019)	8,375 7,893 6,956 (23,224)	5,996 3,220 7,184 (16,400)
Canned	19,666	37,710	50,333
TOTAL	188,955	217,807	210,044

TABLE 2- CANADA: TOTAL PRODUCTION OF FISH, BY GROUPS OF PRODUCTS, 1945-47

Marketed Forms	1945	1946	1947
	('000 lb)	('000 lb)	('000 lb)
Fresh and frozen - Sea fish, round or dressed Sea fish, filleted Fresh-water fish Shellfish Sub-total	181,910 70,638 91,597 37,255 (381,400)	210,659 73,451 92,339 37,146 (413,595)	205,068 33,476 77,808 33,381 (349,733)
Cured Smoked Salted and dried Pickled (in brine) Sub-total	23,815 36,217 38,735 (98,767)	28,222 47,262 45,153 (120,637)	21,021 45,012 34,480 (100,513)
Canned	182,462	168,152	187,241
TOTAL	662,629	702,384	637,487

Note: These figures represent the "product weight", except that wet-salted fish is adjusted to a dried basis.

Note: a) These figures represent the "product weight", except that wet-salted fish is adjusted to a dried basis;

b) The total consumption data shown in the above table were arrived at through adjustment of production data (shown in table 2 below) by statistics of exports, imports and holdings (as shown respectively in tables 3, 4 and 5, pp. 5-6).

TABLE 3- CANADIAN FISH EXPORTS, BY GROUPS OF PRODUCTS, 1945-47

Marketed Forms	1945	1946	1947
Through and Thomas	('000 lb)	(1000 lb)	('000 lb)
Fresh and Frozen - Sea fish, round or dressed Sea fish, filleted Fresh-water fish Shellfish Sub-total	101,499 53,597 66,040 24,503 (245,639)	122,991 46,507 66,407 22,881 (258,786)	125,574 21,562 56,169 18,745 (222,050)
Cured - Smoked Salted and dried Pickled (in brine) Sub-total	14,729 34,488 40,183 (89,400)	19,113 37,774 45,859 (102,746)	13,674 43,196 25,503 (82,373)
Canned	131,347	152,183	155,150
TOTAL	466.386	513,715	459,573

Note: These figures represent the "product weight", except that wet-salted fish is adjusted to a dried basis.

TABLE 4- CANADIAN FISH IMPORTS, BY GROUPS OF PRODUCTS, 1945 - 47

Marketed Forms	1945	1946	1947
Fresh and Frozen -	(1000 lb)	(¹000 lb)	(1000 lb)
Sea fish, round or dressed Sea fish, filleted Fresh-water fish Shellfish Sub-total	2,577 9,299 2,419 (14,295)	3,431 6,672 - 2,635 (12,738)	4,968 2,073 - 2,773 (9,814)
Cured - Smoked Salted and dried Pickled (in brine) Sub-total	106 804 1,863 (2,773)	90 2,477 3,413 (5,980)	100 2,438 2,481 (5,019)
Canned	72	391	2,482
TOTAL	17,140	19,109	17,315

Note: These figures represent the "product weight", except that wet-salted fish is adjusted to a dried basis.



Jan., 1st. Jan., 1st. 1947	26,795     27,207       6,872     3,132       4,548     2,143       209     128       (38,424)     (32,610)	6,556 8,008 14,938 15,372 4,056 8,531 (25,550) (32,311)	52,345 36,585 116,319. 101,506
BEGINNING OF THE CALENDAR YEARS, BY GROUPS OF PRODUCTS 1945-48, 1st. Jan., 1st. Jan., 1st. Jan., 1946	(*************************************	5,732 10,866 8,505 4 (24,903) (25	73,696 52
0	20,694 5,545 3,545 160 (27,944)	4,857 12,633 14,310 (31,800)	42,175
TABLE 5- CANADIAN HOLDINGS OF FISH, AT THE Market Forms Jan	Fresh and Frozen - Sea Fish, round or dressed Sea fish, filleted Fresh-water fish Shellfish Sub-total	Curcd Sncked salted end dried Pickled (in brine)	Uanned TOTAL

Note: These figures represent the "product weight", except that wet-salted fish is adjusted to a dried basis.

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FISH CONSUMPTION

IN

CANADA

CALENDAR YEAR 1945

(14 tables)



TABLE 1.- DOMESTIC CONSUMPTION OF FISH AND SHELLFISH,

BY SPECIES, CANADA, CALENDAR YEAR 1945

SPECIES	Product Weight (cwt)	Edible Weight (cwt)	Per caput Consumption (edible weight) (1b)
Cod	438,981 (1)	374,554	3.20
Haddock	90,751 (1)	53,909	0.46
Halibut	104,286	42,081	0.36
Herring and Sardines	106,503	87,832	0.75
Pilchards	5,949	5,949	0.05
Mackerel	58,312	31,404	0.27
Salmon	387,586	237,873	2.03
Lobsters	46,466	17,719	0.15
Other Shellfish	111,548	18,963	0.16
Other Sea-fish	277,044 (1)	168,996	1.44
Fresh-water fish	262,124	112,400	0.96
TOTAL	1,889,550	1,151,680	9.85

<sup>(1)</sup> Wet-salted fish has been adjusted to a dried basis.



TABLE 2.- DOMESTIC CONSUMPTION OF FISH, BY GROUPS OF PRODUCTS, CANADA, CALENDAR YEAR 1945

	Product	Edible	Per Caput
PRODUCTS	Weight	Weight	Consumption
	,, o 2 Day 0	110 1011	(edible weight)
	7 - 1	7	
	(cwt)	(cwt)	(10)
Fresh and frozen -			
Sea fish, round or dressed	852,041	380,760	3.26
Sea fish, filleted	239,236	239,236	2.05
Fresh-water fish	259,946	110,876	0.95
Shellfish	151,475	30,143	0.26
			(6.52)
Sub-total	(1,502,698)	(761,015)	(0,02)
Cured -			
Smoked	82,995	82,810	0.70
Salted and dried	43,002 (1)		0.46
Pickled fish (2)	64,196		0.49
Sub-total	(190,193)	(194,006)	(1.65)
Canned fish	196,659	196,659	1,68
Outilog Tibil	190,099	190,099	1,00
_			
TOTAL	1,889,550	1,151,680	9.85

<sup>(1)</sup> Wet salted fish has been adjusted to a dried basis (2) Pickled and vinegar cured fish.



TABLE 3,- PRODUCTION AND DOMESTIC CONSUMPTION OF FISH AND SHELLFISH, FRESH AND FROZEN,

CANADA, CALENDAR YEAR 1945

SPECIES	Canadian Production	Domostia	Consumption
21.01.02	(product	(Product	(Edible
	weight)	Weight)	Weight)
	(cwt)	(cwt)	(cwt)
SEA FISH (round or dressed)		21/2 267	( = = = = =
Jod Haddock	161,067	141,163	63,523
Halibut	80,204	65,839	29,628
Herring (1)	161,926 622,499	103,979 32,371	15,584
Mackerel	72,550	49,767	23,884
Salmon	364,674	285,017	136,808
Other sea fish	356,178	173,905	69,562
NOTAL (sea fish rd or dr,)	1,819,098	852,041	380,760
SEA FISH (filleted)			
Ood	542,287	201,420	201,420
Haddock	70,178	20,039	20,039
Halibut	241	296	296
Other sea fish	93,677	17,481	17,481
POTAL (sea fish filleted)	706,383	239,236	239,236
FRESH-WATER FISH			
Lake Trout, rd or dr.	56,028	15,977	5,889
fullibee, rd or dr.	78,647	40,749	17,929
Whitefish, rd or dr.	188,647	56,877	25,594
Other (including fillets)	592,652	146,343	61,464
POTAL (fresh-water fish)	915,974	259,946	110,876
SHELLFISH	017 1017	70 007	77 700
Lobsters Other shellfish	217,443 155,108	39,927 111,548	11,180
VIIOT BIIOTITIBII	1),100	1119 770	10, 909
TOTAL (shellfish)	372,551	151,475	30,143

<sup>(1)</sup> Including sardines.



TABLE 4.- PRODUCTION AND DOMESTIC CONSUMPTION
OF SMOKED FISH, CANADA, CALENDAR YEAR 1945

SPECIES	Canadian Production (product weight)	(Product Weight)	Consumption (Edible Weight)
	(cwt)	(cwt)	(cwt)
Cod, split	11,187	6,783	4,341
Cod, filleted	75,211	57,135	64,562
Haddock, filleted	1,091	710	463
Haddock, split	8,038	2,948	1,886
Herring	117,715 (1)	(1)	(1)
Salmon	3,410	2,420	1,694
Other sea fish	19,222	11,121	8,340
Fresh-water fish	2,283	2,178	1,524
TOTAL	238,157	82,995	82,810

<sup>(1)</sup> See note 1, table 11.



TABLE 5.- PRODUCTION AND DOMESTIC CONSUMPTION OF SALTED, DRIED AND PICKLED FISH, CANADA, CALENDAR YEAR 1945

SPECIES	Canadian Production (product weight)	(Product Weight)	Consumption (Edible Weight)
SALTED AND DRIED (1)	(cwt)	(cwt)	(cwt)
Cod, split	245,770	31,383	39,228
Cod, fillets	47,899	1,097	1,480
Haddock, split	3,867	1,515	1,893
Other Groundfish, split	58,933	6,070	7,588
Other Groundfish, fillets	5,705	2,937	3,965
TOTAL (salted and dried)	362,174	43,002	54,154
PICKLED			
Herring and Sardines (2)	170,776	26,907	25,023
Mackerel	142,042	8,545	7,520
Alewives (2)	60:548	26,688	23,218
Salmon (mild-cured)	13,970	2,045	1,267
Halibut	11	11	14
TOTAL (Pickled)	387,347	64,196	57,042

<sup>(1)</sup> Adjusted to a dried basis for "production" and "product weight".
(2) Pickled and vinegar cured fish.

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TABLE 6.- PRODUCTION AND DOMESTIC CONSUMPTION OF CANNED FISH, CANADA, CALENDAR YEAR 1945

SPECIES	Canadian Production (prod.weight) (cwt)	Domestic Consumption (1) (prod.and Ed. W.) (cwt)
Herring and Sardines	772,858	47,225
Pilchards	37,850	5,949
Salmon	835,885	98,104
Lobsters	30,918	6,539
Other sea fish	147,110	38,842
TOTAL	1,824,621	196,659

<sup>(1)</sup> We have reason to believe that the exports of canned fish, as shown in export statistics, do not represent the "net weight" of the products as the weight of cans and boxes appear to have been included. The correction that would allow for adjustment is unknown but it may be noted that a 10% reduction of exports for adjustment to reach net weight of the product would mean reducing the exports by 131,347 cwt and show equivalent increase in domestic consumption of canned product.



TABLE 7.- SUMMARY OF THE CALCULATION OF THE DOMESTIC CONSUMPTION OF FISH, BY GROUPS OF PRODUCTS,

		CANADA, C	CALENDAR YEAR 1945	1945				Por Canit
	Canadian Production	Stocks Beginning of year.	ks End of year	Foreign Exports	n Trade Imports	<pre>Can. supply (Product Weight)</pre>	y for food (Edible Weight)	Consumption (Edible Weight)
	(1000 19)	(1000 1P)	(,000 1b)	(1000 18)	(1000 15)	(1000 lb)	(1000 lb)	(lbs a year)
Fresh and frozen sea fish- (round or dressed)	181,910	20,694	18,478	101,499	2,577	85,204	38,076	2.56
Fresh and frozen sea fish- (filleted)	70,638	3,545	5,962	53,597	662.6	23,923	23,924	2.05
Fresh and frozen fresh-water fish-	91,597	3,545	3,108	66,040	1	25,994	11,088	0.95
Shellfish fresh and frozen	37,255	160	183	24,503	2,419	15,148	3,014	0.26
Smoked fish	23,815	4,857	5,750	14,729	106	8,299	8,281	0.70
Salted and dried fish (1)	36,217	12,633	10,866	34,488	804	4,300	5,415	0,46
Pickled fish (2)	38,735	14,310	8,305	40,183	1,863	6,420	5,704	0.49
Canned, fish and shellfish	182,462	42,175	73,696	131,347	72	19,666	19,666	1.68
TOTAL	662,629	101,919	126,348	466,386	17,140	188,954	115,168	9,85

(1) Wet-salted fish has been adjusted to a dried basis. (2) Pickled and vinegar cured fish.

TABLE 8.- CALCULATION OF THE DOMESTIC CONSUMPTION OF CODFISH, CAMADA, CALENDAR YFAR 1945 (1)

PRODUCTS	Canadian Production	Stocks, 1st Jan.	Imports	Total Supply	Exports	Stocks, 31st Dec.	Domestic (Product Weight)	Consumption (Edible Weight)
	(c.vt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)
Fresh & Frozen, dressed	161,067	26,723	7,249	195,039	42,729(3)	11,147	141,163	63,523
Fresh & Frozen, filleted	542,287	29,054	89,267	660,608	409,797(4)	49,391	201,420	201,420
Smcked, split	11,187	366	ı	11,553	4,667(5)	103	6,783	4,341
Smoked, filleted	75,211	6,275	196	82,447	18,692(5)	6,620	57,135	64,562
Salted or dried, split(2)	245,770	86,239	666,9	239,008	237,546	70,079	31,383	39,228
Salted or dried, filleted(2)	47,899	73767	1	55,666	47,831	6,738	1,097	1,480
TOTAL	1,083,421	156,424	104,476	1,344,321	761,262	144,078	438,981	374,554

Exports of cod smoked were segregated from lingcod, black cod, red and rock cod smoked on the basis of percentage of (1) Canned codfish is included in "other sea fish", table 13.
(2) Wet-salted is adjusted to a dried basis.
(3) Segregated from other groundfish on the basis of percentage of production.
(4) Segregated from lingcod, red and rock cods on the basis of percentage of production.
(5) Exports of cod smoked were segregated from lingcod, black cod, red and rock cod smoke

production; smoked split here is separated from smoked fillets on the same basis.



PROPICTS	Canadian	Stocks 1st Jen.	Imports	Total Supply	Exports	Stocks 31st Dec.	Demostic (Product Weight)	Company   Consumption   Cons
	(cwt)	(cwt)	(cwc)	(cvt)	(cut)	(cwt)	(cwt)	(cut)
Fresh and Frozen, dressed	80,204	2,460	330	82,994	15,395	1,760	65,839	29,628
Fresh and Frozen, filleted	70,178	2,974	2,812	75,964	52,796(3)	3,129	20,039	20,039
Smoked, split	8,038	1,710	ŧ	9,748	5,542	1,258	2,948	1,886
Smoked, filleted	1,091	544	ř	1,635	ı	1,225	410	463
Salted or dried, split (2)	3,867	971(4)	1	4,838	2,726(5)	597(4)	1,515	1,893
TOTAL	163,378	8,659	3,142	175,179	76,459	7,969	90,751	53,909

<sup>(1)</sup> Canned haddock is included in "other sea fish", table 13.
(2) Wet-salted is adjusted to a dried basis.
(3) Discriminated from other groundfish on the basis of percentage of production.
(4) Segregated from cusk on the basis of percentage of production.
(5) 75% of wet-s:lted is assumed as exported.



DOMESTIC CONSUMPTION OF SALMON AND HALIBUT, CANADA, CALENDAR YEAR 1945 TABLE 10.- CALCULATION OF THE

PECIES							Domestic	c Consumption
and	Canadian Production	Stocks 1st Jan.	Imports	Total	Exports	Stocks 31st Dec.	(Product Weight)	(Edible Weight
SALMON (1)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)
Fresh and frozen, round	364,674	57,545	10,216	432,435	191,09	87,257	285,017	136,808
Smo <b>k</b> ed	3,410	184	1	3,594	417	757	2,420	1,694
Mild-cured	13,970	270	264	14,504	11,800	629	2,045	1,267
Canned	835,865	103,238	412	939,535	596,140	245,291	98,104	98,104
TOTAL SALMON	1,217,939	161,237	10,892	1,390,068	668,518	333,964	387,586	237,873
HALIBUT (2)								
Fresh and frozen, round	161,926	42,220	2776	204,922	77,454	23,489	103,979	41,771
Fresh and frozen, filleted	241	1	ည	296	ı	1	296	296
Pickled	11	3		11	e e		11	14
TOTAL HALIBUT	162,178	42,220	831	205,229	77,454	23,489	104,286	42,081
TOUTHWI FUTOI	0 7 6 20 7	200	1		1			

(1) Fresh and frozen fillets of salmon are included in "other sea fish," table 13.

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SPECIES	2000	Stocks	Imports	Total	Exports	Stocks	(Product	Domestic Consumption roduct (Edible
and	Production	1st Jan.		Supply	4	31st Dec.	Weight)	Weight
Inchesing	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cut)	(cwt)	(cwt)
HERRING and SARDINES								
Fresh and frozen, round	622,499	50,994	6,343	679,836	615,500	31,965	32,371	15,584
Pickled and vinegar cured	170,776	69,792	12,494	253,062	194,459	31,696	26,907	25,023
Smoked	117,715(1)	36,565	ě	154,280	108,584	45,696	(1)	8
Canned	772,858	280,740	179	1,053,777	586,602	419,950(2)	47,225	47,225
TOTAL (herring and sardines)1,685,848	,)1,683,848	458,091	19,016	2,140,955	1,505,145	529,307	106,503	87,832
PILCHARDS								
ر د د د د	37,850	9.911	1	47,761	11,750	30,062	5,949	5,949

(1) The production figure had to be raised by 1203 cwt to cover for adjusted stocks and exports; there reason to believe that some herring is smoked after it has been reported as frozen, amounting to an unkown quantity; however, it is known that the consumption of kippered herring is of some importance in Canada.
(2) This figure is raising by 65,000 cwt the estimate calculated as explained in the introduction; the present estimate depends on reliable source.

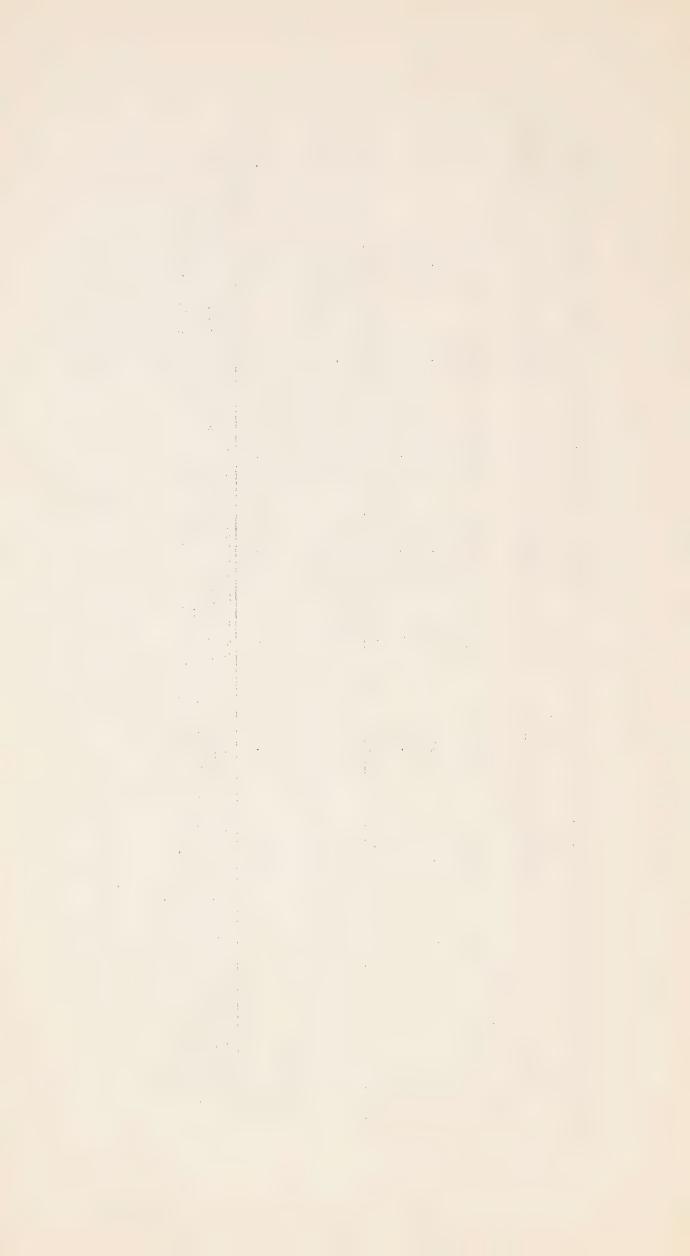


TABLE 12. CALCULATION OF THE DOWESTIC COMSUMPTION OF MACKEREL, LOBSTER AND OTHER SHELLFISH, CANADA, CALENDAR YEAR 1945

MACKEREL (1)  Fresh and frozen, round 72,550 14,056 88 86,694 24,422 12,506 49,767  Fresh and frozen, round 72,550 14,066 88 86,694 24,422 12,506 49,767  Fresh and frozen, round 72,550 14,066 88 86,694 24,422 12,506 8,546  TOTAL MACKEREL  LOBSTER  In shell and meat 217,443 1,087 12,991 281,521 190,422 1,172 39,927  Canned 30,918 752 31 31,701 24,753 409 6,539  OTHER SHELLFISH (2)  In shell and meat 155,108 511 11,196 166,815 54,608 659 111,548	ound 72,550 14,056 88 86,694 24,422 12,505 49,767 2  142,042 52,234 98 194,374 159,053 26,776 8,545  214,592 66,290 186 281,068 183,475 39,281 58,312 3  217,443 1,087 12,991 281,521 190,422 1,172 39,927 1  30,918 752 31 31,701 24,753 409 6,539  248,361 1,839 13,022 263,222 215,175 1,581 46,466 1  155,108 511 11,196 166,815 54,608 659 111,548 1  1mackerel are included in "other sea fish", table 13.	SPECIES and PRODUCTS	Canadian Production	Stocks 1st Jan.	Imports	Total Supply	Exports	Stocks 31st Dec.	Domestic (Product Weight)	Concumption (Edible Weight)
ound 72,550 14,056 88 86,694 24,422 12,505 4  142,042 52,234 98 194,374 159,053 26,776  214,592 66,290 186 281,068 183,475 39,281 E  217,443 1,087 12,991 231,521 190,422 1,172 3  30,918 752 31 31,701 24,753 409  248,361 1,839 13,022 263,222 215,175 1,581 4  155,108 511 11,196 166,815 54,608 659 11	ound 72,550 14,056 88 86,694 24,422 12,505 49,767 2 12,505 14,056 25,234 98 194,374 159,053 26,776 8,545 2 14,592 66,290 186 281,068 188,475 39,281 58,312 3 20,918 752 31 31,701 24,753 409 6,539 2 248,361 1,839 13,022 263,222 215,175 1,581 46,466 1 155,108 511 11,196 166,815 54,608 659 111,548 1 161,196 216,118 13,024 2 15,116 11,819 11	MACKEREL (1)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cw't)	(cwt)
214,592 66,290 186 281,068 183,475 59,281 E 214,592 66,290 186 281,068 183,475 39,281 E 217,443 1,087 12,991 231,521 190,422 1,172 3 30,918 752 31 31,701 24,753 409 248,361 1,839 13,022 263,222 215,175 1,581 4	142,042 52,234 98 194,374 159,053 26,776 8,545 214,592 66,290 186 281,068 183,475 59,281 58,312 3 217,443 1,087 12,991 251,521 190,422 1,172 39,927 1 30,918 752 31 31,701 24,753 409 6,539 248,361 1,839 13,022 263,222 215,175 1,581 46,466 1 155,108 511 11,196 166,815 54,608 659 111,548 1	Fresh and frozen, round	72,550	14,058	88	86,694	24,422	12,505	49,767	23,884
214,592       66,290       186       281,068       183,475       39,281       8         217,443       1,087       12,991       231,521       190,422       1,172       3         30,918       752       31       31,701       24,753       409         248,361       1,839       13,022       263,222       215,175       1,581       4         155,108       511       11,196       166,815       54,608       659       11	217,445 1,087 12,991 231,521 190,422 1,172 39,927 30,918 752 31,701 24,753 409 6,539 27 3 31,701 24,753 409 6,539 27 3 31,701 24,753 409 6,539 27 3 31,701 24,753 409 6,539 27 3 31,701 24,753 409 6,539 27 3 31,701 24,753 409 6,539 3 3 31,701 24,753 409 6,539 3 3 31,701 24,753 409 6,539 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Piclad	142,042	52,234	86	194,374	159,053	26,776	8,545	7,520
217,443     1,087     12,991     231,521     190,422     1,172     3       30,918     752     31     31,701     24,753     409       248,361     1,839     13,022     263,222     215,175     1,581     4       155,108     511     11,196     166,815     54,608     659     11	217,445 1,087 12,991 231,521 190,422 1,172 39,927 3 30,918 752 31 31,701 24,753 409 6,539 6,539 248,561 1,839 13,022 263,222 215,175 1,581 46,466 3 155,108 511 11,196 166,815 54,608 659 111,548 1 1 1 1,196 1,196 1 1 1,548 1 1 1 1,548 1 1 1 1,548 1 1 1 1,548 1 1 1 1,548 1 1 1 1,548 1 1 1 1,548 1 1 1 1,548 1 1 1 1,548 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TOTAL MACKEREL	214,592	66,290	186	281,068	183,475	39,281	58,312	51,4.04
217,443     1,087     12,991     231,521     190,422     1,172     3       30,918     752     31     31,701     24,753     409       248,361     1,839     13,022     263,222     215,175     1,581     4       155,108     511     11,196     166,815     54,608     659     11	217,445	LOBSTER								
30,918     752     31,701     24,753     409       248,361     1,839     13,022     263,222     215,175     1,581     4       155,108     511     11,196     166,815     54,608     659     11	248,361 1,839 13,022 263,222 215,175 1,581 46,466 1 155,108 511 11,196 166,815 54,608 659 111,548 1	In shell and meat	217,443	1,087	12,991	231,521	190,422	1,172	39,927	11,180
248,361 1,839 13,022 263,222 215,175 1,581 1,581 155,108 511 11,196 166,815 54,608 659 1	248,361 1,839 13,022 263,222 215,175 1,581 46,466  155,108 511 11,196 166,815 54,608 659 111,548  F mackerel are included in "other sea fish", table 13.	Canned	30,918	752	31	31,701	24,753	409	6,539	6,539
155,108 511 11,196 166,815 54,608 659	155,108 511 11,196 166,815 54,608 659 111,548  f mackerel are included in "other sea fish", table 13.	TOTAL LOBSTER	248,361	1,839	13,022	263,222	215,175	1,581	46,466	17,719
155,108 511 11,196 166,815 54,608 659	155,108 511 11,196 166,815 54,608 659 111,548 of mackerel are included in "other sea fish", table 13.	OTHER SHELLFISH (2)								
	0	In shell and meat	155,108	211	11,196	166,815	54,608	629	111,548	18,963
are included in "other sea fish". table		(1) Fresh fillets of macke		d in "other	fish".	1				



TABLE 13. CALCULATION OF THE DOMESTIC CONSUMPTION OF "OTHER SEA FISH", CANADA, CALENDAR YEAR 1945 (1)

PROPUCTS	Canadian Production	Stocks 1st Jan.	Tuforts	Supply	S TOAK	Sist Dec.	Weight)	Weight
	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(c.r.t
Fresh and frogen, round	356,178	12,941(4)	772	369,891	179,329	16,657(4)	173,905	69,562
Fresh and frozen, filleted	93,677	3,420(4)	859	97,956	73,374	7,101(4)	17,481	17,481
Smoked	19,222	2,197(5)	94	21,513	8,731	1,661(6)	11,721	8,340
Salted and dried, split (2)	58,933	30,478	1,037	90,448	54,667	29,711	6,070	7,538
Salted fillets (2)	5,705	. 84.22	ű.	6,580	2,107	1,536	2,037	3,965
Pickled and winegar cured(a)	60,548	203,02	5,7.77	87,127	36,517	23,922	26,688	23,218
Canned	147,110	27,108	100	174,518	94,229	41,247	38,842	38,842
TOTAL	741,373	97,821	8,639	847,833	448,954	121,835	277,044	168,996

haddock, halibut, mackerel and shellfish (except lobsters) canned are also included here.
(2) Wet-salted adjusted to dried basis; this product is from "Groundfish", except cod and haddock.
(3) Alewives mainly.
(4)"Fillets" discriminated from "round" on the basis of percentage of production; total figure for both discriminated from fresh-

(5) Discriminated from fresh-water fish on the basis of % of production in 1944. (6) Discriminated from fresh-water fish on the basis of % of production in 1945. water fish on the same basis.



TABLE 14.- CALCULATION OF THE DOMESTIC CONSUMPTION OF FRESH WATER FISH, CANADA, CALENDAR YEAR 1945

	Andrew Control and Control of the Co			where distribution interesting the control of the c			Domestic (	Domestic Consumption
SPECIES and PRODUCTS	Canadian Production	Stocks 1st Jan.	Imports	Total Supply	Exports	Stocks 31st Dec.	(Product Weight)	(Edible Weight)
	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)
Lake trout, rd or dr.	56,028	339	1	56,367	40,007	383	15,977	5,889
Tullibee, rd or dr.	78,647	4,344	ſ	166,28	39,438	2,804	40,749	17,929
White fish, rd or dr.	188,647	88.88	1	197,529	136,858	3,794	56,877	25,594
Smoked	202,2	733(2)	ſ	3,016	654	184(4)	2,178	1,524
Other (including fillets)	592,652	21,886(3)	ì	614,538	444,094(1)	24,101(3)	1.46,343	61,464
TOTAL	918,257	36,184		954,441	661,051	31,266	262,124	112,400
			1	100	1			

(1) 50,000 cwt. are taken from "other fish fresh and frozen filleted" in export statistics.
(2) See note 5, table 13.
(3) See note 4, table 13.
(4) See note 6, table 13.



III

FISH CONSUMPTION

IN

CANADA

CALENDAR YEAR 1946

(14 tables)



TABLE 1 .- DOMESTIC CONSUMPTION OF FISH AND SHELLFISH, BY SPECIES, CANADA, CALENDAR YEAR 1946

SPECIES	Product Weight	Edible Weight	Consumption per caput (Edible Weight)
	(cwt)	(cwt)	(lbs)
Cod .	442,417 (1)	416,712	3.40
Haddock	118,940 (1)	86,372	0.70
Halibut	110,716	44,286	0.36
Herring and sardines	191,023	172,528	1.40
Pilchards	- (2)	<b>- (</b> 2)	-
Mackerel	51,367	28,766	0.23
Salmon	507,664	351,949	2.87
Lobsters	35,047	13,544	0.11
Other shellfish	138,869	23,607	0.19
Other sea fish	336,910 (1)	220,048	1.79
Fresh-water fish	245,097	104,665	0.85
TOTAL	2,178,050	1,462,477	11.92

<sup>(1)</sup> Wet salted fish has been adjusted to a dried basis. (2) See note 4, table 11.

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TABLE 2.- DOMESTIC CONSUMPTION OF FISH, BY GROUPS OF PRODUCTS CANADA, CALENDAR YEAR 1946

PRODUCTS	Product Weight	Edible Weight	Consumption per caput (Edible Weight)
Fresh and frozen-	(cwt)	(cwt)	(lbs)
Sea fish, round or dressed Sea fish, filleted Fresh-water fish Shellfish Sub-total	827,809 327,058 245,097 168,734 (1,568,698)	367,882 327,058 104,665 31,969 (831,574)	3.01 2.67 0.85 0.26 (6.79)
Cured- Smoked Salted and dried Pickled fish (2) Sub-total	83,759 78,928(1) 69,559 (232,246)	90,162 100,771 62,864 (253,797)	0.73 0.82 0.51 (2.06)
Canned fish	377,106	377,106	3.07
TOTAL	2,178,050	1,462,477	11.92

<sup>(1)</sup> Wet salted fish has been adjusted to a dried basis. (2) Pickled and vinegar cured.



TABLE 3.- PRODUCTION AND DOMESTIC CONSUMPTION OF FISH AND SHELLFISH, FRESH AND FROZEN,

CANADA, CALENDAR YEAR 1946 Canadian SPECIES Production Domestic Consumption (Product (Product (Edible Weight) Weight) Weight) (cwt) (cwt) (cwt) SEA FISH (round or dressed) Cod 138,518 98,180 44,181 72,699 189,267 964,642 26,973 44,286 11,479 59,942 Haddock 26,744 Halibut Herring (1) 21,628 142,479 76,856 48,932 43,255 Mackerel 296,831 Salmon 382,087 192,141 310,443 Other sea fish TOTAL (sea fish, rd or dr.)2,106,588 367,882 827,809 SEA FISH (filleted) 536,440 83,123 201,802 56,145 201,802 56,145 Cod Haddock 114,946 69,111 69,111 Other sea fish TOTAL (filleted, sea fish) 734,509 327,058 327,058 FRESH-WATER FISH 70,053 67,995 162,648 Sauger, rd or dr. 7,189 17,117 35,322 33,935 158,723 15,541 15,271 66,664 Tullibee, rd or dr. Whitefish, rd or dr. 622,693 Other (including fillets) 104,665 TOTAL (fresh-water fish) 923,389 245,097 SHELLFISH 204,978 29,865 8,362 Lobsters 166,481 23,607 138,869 Other shellfish TOTAL (shellfish) 371,459 168,734 31,969

<sup>(1)</sup> Including sardines.

TABLE 4.- PRODUCTION AND DOMESTIC CONSUMPTION OF SMOKED FISH, CANADA, CALENDAR YEAR 1946

SPECIES	Canadian Production (Product Weight) (cwt)	Domestic (Product Weight) (cwt)	Consumption (Edible Weight) (cwt)
Cod, split	949	425	272
Cod, filleted	123,746	72,297	81,695
Haddock, split	4,583	473	302
Haddock, filleted	623	184	208
Herring	135,575 (1)	(1)	(1)
Salmon	2,301	2,011	1,408
Other Sea fish	14,447	8,369	6,277
TOTAL	282,224	83,759	90,162

<sup>(1)</sup> See note 1, table 11.

TABLE 5.- PRODUCTION AND DOMESTIC CONSUMPTION OF SALTED,

DRIED AND PICKLED FISH, CANADA, CALENDAR YEAR 1946

SPECIES	Canadian Production (Product Weight)	(Product Weight)	Consumption (Edible Weight)
SAUTED AND DRIED (1)	(cwt)	(cwt)	(cwt)
Cod, split	324,131	53,498	66,872
Cod, fillets	65,248	16,215	21,890
Haddock, split	4,755	2,196	2,744
Other Groundfish, split	71,945	2,102	2,628
Other Groundfish, fillets	6,541	4,917	6,637
TOTAL (salted and dried)	472,620	78,928	100,771
PICKIED			
Herring and sardines (2)	244,549	46,130	42,900
Mackerel	105,460	8,112	7,138
Alewives (2)	84,936	13,318	11,587
Salmon (mild cured)	16,581	1,999	1,239
TOTAL (pickled)	451,526	69,559	62,864

<sup>(1)</sup> Adjusted to a dried basis for "production" and "product weight".
(2) Pickled and vinegar cured fish.

TABLE 6.- PRODUCTION AND DOMESTIC CONSUMPTION OF CANNED FISH, CANADA, CALENDAR YEAR 1946

SPECIES	Canadian Production (Product weight) (cwt)	Domestic Consumption (1) (Product and Edible weight) (cwt)
Herring and sardines	818,733	118,149
Pilchards	2,814 (2)	~ (2)
Salmon	648,172	206,823
Lobsters	36,002	3,182
Other Sea Fish	175,796	46,952
TOTAL	1,681,517	377,106

<sup>(1)</sup> We have reason to believe that the exports of canned fish, as shown in export statistics, do not represent the "net weight" of the products as the weight of cans and boxes appear to have been included. The correction that would allow for adjustment is unknown but it may be noted that a 10% reduction of exports for adjustment to reach net weight of the product would mean reducing the exports by 152,183 cwt and show equivalent increase in domestic consumption of canned product.

(2) See note 4, table 11.

TABLE 7. SUMMARY OF THE CALCULATION OF THE DOMESTIC CONSUMPTION OF FISH, BY GROUPS OF PRODUCTS,

A STATE OF THE PROPERTY OF THE	and the second commence of the second commenc	The second secon		the control of the statement of the stat		oder den A. Der renderen A. De	The state of the s	Por Caput
	Canadian Production	Stocks Beginning of year	cles End of year	Foreign	Trade Imports	Can. supply (Product Weight)	y for food (Edible Weight)	Consumption (Edible Weight)
THE PROPERTY OF THE PROPERTY O	(,000 1b)	(1000 11)	(47.000 i)	(+600 1b)	(4000 1p)	(dl 0001)	(41 000)	(ibs a year,
Frech and frozen sea fish (round or dressed)	210,659	18,478	26,795	122,991	5,431	82,782	36,788	3.01
Fresh and frozen sea fish (filleted)	73,457	5,962	878,9	46,507	6,672	. 32,706	32,706	2.67
Fresh and frozen frash-water fish	622, 26	3,127	A. 548	66,407	ĩ	24,511	10,467	0,85
Fresh and frozen shellfish	37,146	183	209	22,831	2,635	16,874	3,197	0,26
Smoked fish	28,222	5,732	6,556	19,113	06	8,375	910.9	0.73
Salted and dried fish (1)	47,262	10,866	14,938	37,774	2,477	7,893	10,077	0.82
Pickled fish (2)	45,153	8,305	4,056	45,859	5,413	6,956	6,286	₹ 0
Canned, fish and shellfish	168,152	73,696	52,346	152,183	391	37,710	37,711	3,07
TOTAL	702,334	126,349	116,320	513,715	19,109	217,807	146,248	11.92

(1) Wot-calted fish has been adjusted to a dried basis. (2) Pickled and vinegar cured fish,



TABLE 8.- CALCULATION OF THE DOWESTIC CONSUMPTION OF CODFISH CANADA, CALENDAR YEAR 1946 (1)

PRODUCTS	Canadian Production	Stocks 1st Jan.	Imports	Total Supply	Exports	Stocks 31st Dec.	(Product Weight)	roduct (Edible Weight)
	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)
Fresh and frozen, dressed	138,518	11,147	8,212	157,877	27,154(4)	32,543	98,180	44,181
Fresh and frozen, filleted	536,440	49,391	59,772	645,603	383,913(3)	59,888	201,802	201,802
Smoked, split	949	103	1	1,052	395(5)	232	425	272
Smoked, filleted	123,746	6,620	121	131,117	42,105(5)	16,715	72,297	81,695
Salted or dried, split (2)	324,131	40,07	23,401	417,611	258,415	105,698	53,498	66,872
Salted or dried, filleted (2)	65,248	6,738	1	71,986	46,706	9,065	16,215	21,890
TOTAL	1,189,032	144,078	92,136	1,425,246	758,688	224,141	412,417	416,712

(1) Canned cod fish is included in "other sea fish", table 12.

(2) Wet-salted fish is adjusted to a dried basis.

(3) Segregated from lingcod, red and rock cods on the basis of percentage of production (98% for cod).

(4) Segregated from lingcod, black cod, red and rock cods and tomcods on the basis of percentage of production (64% for cod).

(5) Segregated from lingcod, red and rock cods and black cod smoked on the basis of percentage of production: "fillets"

Segregated from lingcod, red and rock cods and black cod smoked on the basis of percentage of production; "fillets" discriminated from "split" fish on the same basis.

; ; ; 

TABLE 9.- CALCULATION OF THE DOWESTIC CONSUMPTION OF HADDOCK, CANADA, CALENDAR YEAR 1946 (1)

PRODUCTS	Canadian	Stocks 1st Jan.	Imports	Total Supply	Exports	Stocks 31st Dec.	(Product Weight)	roduct (Edible eight) Weight)
	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)
Fresh and frozen, dressed	72,699	1,760	729	75,188	14,045	1,201	59,942	26,973
Fresh and frozen, filleted	83,123	8,129	6,420	92,672	30,222	6,305	56,145	56,145
Smoked, split	4,583	1,258	ı	5,841	3,007	2,361	473	302
Smoked, filleted	623	1,225	1	1,848	ŧ	1,664	184	208
Salted or dried, split (2)	4,755	597 (4)	•	5,352	2,785(3)	371(4)	2,196	2,744
TOTAI.	165,783	7,969	7,149	180,901	50,059	11,902	118,940	86,372

(1) Canned haddock is included in "other sea fish", table 13.
(2) Wet-salted is adjusted to a dried basis.
(3) 75% of "wet-salted" haddock was assumed as exported.
(4) Discriminated from cusk on the basis of percentage of production.

TABLE 10.- CALCULATION OF THE DOMESTIC CONSUMPTION OF SALMON AND HALIBUT, CANADA, CALENDAR YEAR 1946

							Domestic	Domestic Consumption
SPECIES	Canadian Production	Stocks 1st Jan.	Imports	Total Supply	Exports	Stocks 31st Dec.	(Product Weight)	(Edible Weight)
PRODUCT'S	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)
SALMON (1)								
Fresh and frozen, dressed	382,087	87,257	17,437	486,781	88,563	101,387	296,831	142,479
Smoked, split	2,301	757	29	087	680	396	2,011	1,408
Mild cured	16,581	629	27	17,267	14,293	975	1,999	1,239
(Se mane)	648,172	245,291	140	893,603	479,021	207,,159	206,823	206,823
TOTAL (salmon)	1,049,141	333,964	17,633	1,400,738	582,557	310,517	507,664	351,949
HALIBUT (2)								
Fresh and frozen	189,267	23,489	හ ස භ	213,445	47,931	54,798	110,716	44,286
		11 200 1000	11 athor con fight	h" table 13.				

(1) Fresh and frozen fillets of salmon are included in "other sea fish", table 13. (2) Small quantity of fresh fillets of halibut and of canned halibut included in "other sea fish", table 13.

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TABLE 11. CALCULATION OF THE DOMESTIC CONSUMPTION OF HERRING, SARDINES AND PILCHARDS, CANADA, CALENDAR YEAR 1946

0.11.2000							Domestic	Domestic Consumption
SIECTES end	Canadian Production	Stocks 1st Jan.	Imports	Total	Exports	Stocks 31st Dec.	(Product Weight)	(Edible Weight)
OLOGOUI OLOGOUI	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(owt)
HERRING AND SARDINES								
Fresh and frozen, round	964,642	31,965	5,598	1,002,205	923,215	52,246	26,744	11,479
Pickled and vinegar cured (2)	244,549	31,696	29,556	305,801	239,131	20,540	46,130	45,900
Smoked	135,575(1)	45,696	,	181,271	139,520	41,751	-(1)	,
Canned	818,733	419,950	1,882	1,240,565	851,960	270,456(3)	118,149	118,149
TOTAL (herring and sardines)	2,163,499	529,307	37,036	2,729,842	2,153,826	384,993	191,023	172,528
PILCHARDS								
Canned	2,814(4)	30,062	1	32,876	30,070	2,816	-(4)	8
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	though in mondon to halipave that	en to helie	ve that

(1) The production figure had to be raised by 3,786 cwt to cover for adjusted stocks and exports; there is reason to believe that (2) Dry-salted herring is not considered here being that it is a product for export only. (3) The estimate--as 6 months exports, less production for the same months--has been reduced by 65,000 cwt; the present estimate some herring is smoked after it has been reported as frozen, amounting to an unknown quantity; however the consumption of herring smoked, mainly kippered, is of some importance in Canada.

depends on a reliable source.

(4) The production figure at our disposal has been raised by 707 cwt to cover for adjusted stocks and exports; however the production of canned pilchards was abnormally low in 1946 and consequently had a negligible influence on domestic consumption of fish.

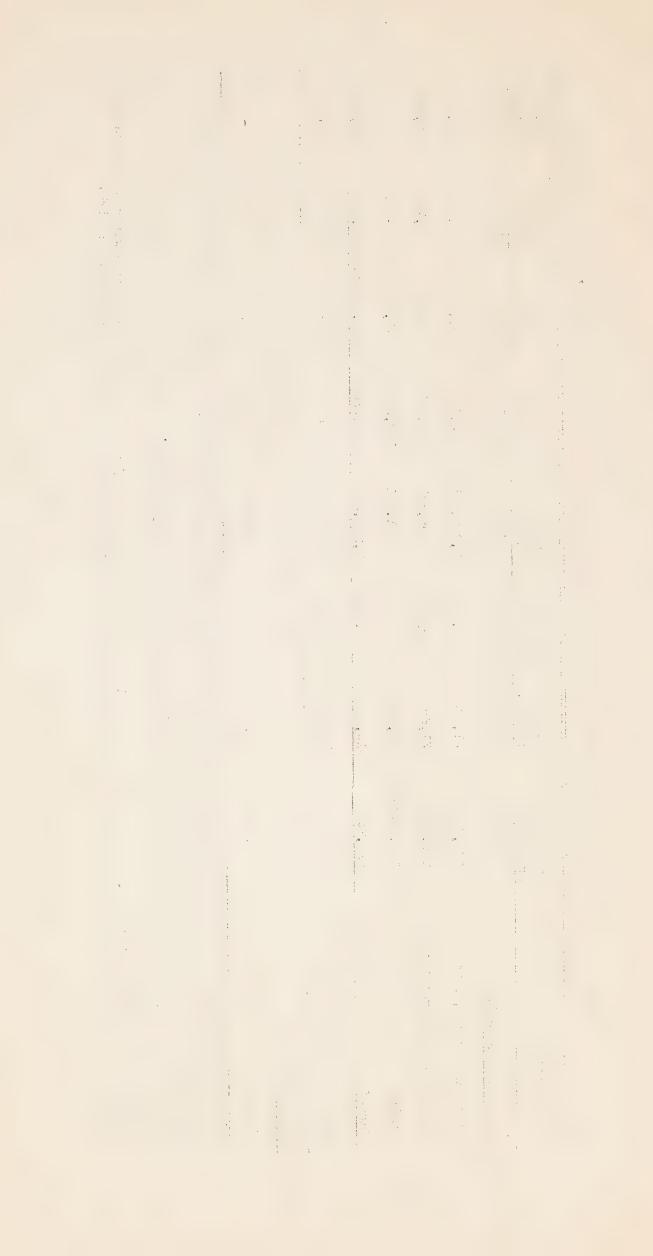


TABLE 12.- CALCULATION OF THE DOWESTIC CONSUMPTION OF MACKEREL, LOBSTER AND OTHER SHELLFISH, CANADA, CALENDAR YEAR 1946

		The second registers of the se	Annual of the State of the Stat	And the state of t			Domestic (	Domestic Consumption
SPECIES	Canadian	Stocks	Imports	Total Supply	Exports	Stocks 31st Dec.	(Product Weight)	(Edible Weight)
MACKEREL (1)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)
Fresh and frozen	48,932	12,505	349	61,786	8,249	10,282	43,255	21,628
Pickled	105,460(2)	26,776	240	132,476	111,916	12,448	8,112	7,138
TOTAL (mackerel)	154,392	29,281	589	194,262	120,165	22,730	51,367	28,766
LOBSTER								
In shell and meat	204,978	1,172	13,946	220,096	189,058	1,173	29,865	8,362
Canned	26,002	409	330	36,741	26,986	4,563	5,182	5,182
TOTAL (lobster)	240,980	1,581	14,276	256,837	216,054	5,736	35,047	13,544
OTHER SHELLFISH (3) In shell and meat	166,481	629	12,406	179,546	39,756	921	138,869	23,607
	المره بم مصملات المائدة ومورات و مدرات المائدة		11 40 00	1000				

(1) Fresh fillets of mackerel are included in "other sea fish", table is.
(2) The production figure on hand has been raised by 10,000 cwt and production still appears as a minimum figure.
(3) Canned "other shellfish" is included in "other sea fish", table 13.

TABLE 13.- CALCULATION OF THE DOWESTIC CONSUMPTION OF "OTHER SFA FISH", CANADA, CALENDAR YEAR 1946 (1)

							Domestic C	Domestic Consumption
PRODUCTS	Canadian	Stocks 1st Jan.	Imports	Total	Exports	Stocks 31st Dec.	(Product Weight)	(Edible Weight)
	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)	(cwt)
Fresh and frozen, round	310,443	16,657	1,291	162,825	120,754	15,496	192,141	76,856
Fresh and frozen, filleted	114,946	7,101	523	122,570	50,936	2,523	69,111	69,111
Smoked	14,447	1,661	121	16,229	5,420	2,440	8,369	6,277
Salted and dried, split (2)	. 71,945	29,711	1,365	103,021	67,964	32,955	2,102	2,628
Salted filleted (2)	6,541	1,536	ı	8,077	1,871	1,289	4,917	6,637
Pickled and vinegar cured	84,936	23,922	4,303	113,161	93,245	6,558	13,318	11,587
Canned	175,796	41,247	1,559	218,602	133,787	37,863	46,952	46,952
TOTAL	779,054	121,835	9,162	900,051	473,977	99,164	164 336,910 220,0	220,048

other than herring, sardines, mackerel and pilchards. However fresh fillets of mackerel, salmon and halibut are included here; canned (1) This group includes "groundfish", except cod and haddock; flatfish, except halibut; estuarial fish, except salmon; pelagic fish cod, haddock, halibut, mackerel and shellfish (except lobster) are also included here. (2) Wet-salted adjusted to a dried basis.



TABLE 14. CALCULATION OF THE DOMESTIC CONSUMPTION OF FRESH-WATER FISH, CANADA, CALENDAR YEAR 1946

And the state of t	The state of the s		The state of the s				Domestic	Domestic Consumption
SFECIES	Canadien Production(1)	Stocks 1st Jan.	Imports	Total Supply	Exports	Stocks 31st Dec.	(Product Weight)	(Edible Weight)
	(c.rt)	(cvt)	(CWT)	(cwt)	(cwt)	(cwt)	(cwt)	(cvt)
Sauger, round or dressed	70,053	846	1	70,899	52,850	892	17,117	7,189
Tullibee, round or dressed	67,995	2,804	ŧ	70,799	25,090	10,387	35,322	15,541
Whitefish, round or dressed	162,648	3,794	ŧ	166,442	126,540	5,967	32,935	15,271
Other (fillets included)	622,693	25,822	ı	646,515	459,554	28,238(1)	158,723	66,664
TOTAL	923,389	31,266	ŧ	954,655	664,074	45,484	245,097	104,665

(1) The production of fresh-water fish has been estimated from the exports according to the rates of production to exports for the previous year, as applied to different species.

IV

FISH CONSUMPTION

IN

CANADA

CALENDAR YEAR 1947

(7 tables)



TABLE 1.- DOMESTIC CONSUMPTION OF FISH AND SHELLFISH,

BY SPECIES, CANADA, CALENDAR YEAR 1947

			Consumption
SPECIES	Product Weight	Edible Weight	per caput (Edible Weight)
	(cwt)	(cwt)	(lbs)
Cod	305,719(1)	250,754	1.99
Haddock	99,848(1)	71,637	0.57
Halibut	81,007	32,402	0.26
Herring and sardines	204,300	166,519	1.32
Pilchards	894	894	0.01
Mackerel	41,417	23,437	0.19
Salmon	700,169	523,497	4.16
Lobsters	42,743	16,198	0.13
Other shellfish	138,027	23,464	0.19
Other sea fish	245,885(1)	146,800	1.18
Fresh-water fish	240,440	102,992	0.82
TOTAL	2,100,447	1,358,592	10.80

<sup>(1)</sup> Wet-salted fish has been adjusted to a dried basis.

TABLE 2.- DOMESTIC CONSUMPTION OF FISH, BY GROUPS
OF PRODUCTS CANADA, CALENDAR YEAR 1947

PRODUCTS	Product Weight	Edible Weight	Consumption per caput (Edible Weight)
Fresh and frozen- Sea fish, round or dressed Sea fish, filleted Fresh-water fish Shellfish Sub-total	(cwt)  840,514  177,268  240,440  174,894  (1,433,116)	(cwt)  377,363 177,268 102,992 33,786 (691,409)	(1bs) 3.00 1.41 0.82
Cured- Smoked Salted and dried Pickled fish Sub-total	59,967 32,197(1) 71,837 (164,001)	59,886 40,349 63,618 (163,853)	0.48 0.32 0.50 (1.30)
Canned	503,330	503,330	4.00
TOTAL	2,100,447	1,358,592	10.80

<sup>(1)</sup> Wet-salted fish has been adjusted to a dried basis.

TABLE 3.- PRODUCTION AND DOMESTIC CONSUMPTION OF FISH AND SHELLFISH, FRESH AND FROZEN, CANADA, CALENDAR YEAR 1947

	Canadian		
SPECIES	Production		Consumption
	(Product	(Product	(Edible
	Weight) (cwt)	Weight) (cwt)	Weight) (cwt)
SEA FISH (round or dressed)	(GWt)	(CWC)	(CWC)
Cod Cod	103,535	114,439	51,498
Haddock	58,244	50,484	22,718
Halibut	252,751	81.007	32,402
Herring (1)	807,774	62,620	27,700
Mackerel	49,370	34,237	17,119
Salmon	538,775	335,444	161,013
Other sea fish	240,235	162,283	64,913
TOTAL (sea fish, rd or dr.)	2,050,684	840,514	377,363
-			
SEA FISH (filleted)			
Cod Cod	215,099	115.401	115,401
Haddock	78,596	44,409	44,409
Other sea fish	41,065	17,458	17,458
_		- 17	
TOTAL (sea fish, filleted)	334,760	177,268	177,268
FRESH-WATER FISH	from the part (see )	70 710	F 100
Sauger, rd or dr.	51,585	12,144	5,100
Tullibee, rd or dr.	66,466 149,632	47,717 25,154	20,995
Whitefish, rd or dr. Other (including fillets)	510,396	145.425	61,078
Other (Including Illieus)	910,990	17,72	01,010
TOTAL (fresh-water fish)	778,079	240.440	102,992
(22-22-7)	1104013		,
SHELLFISH			
Lobsters	177,578	36,867	10,322
Other shellfish	156,229	138,027	23,464
momar (alana a conta)	777 007	יולים ולדים	77 706
TOTAL (shellfish)	<b>3</b> 33,80 <b>7</b>	174,894	33,786
/1\ Taraladina aradina			

<sup>(1)</sup> Including sardines.

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TABLE 4.- PRODUCTION AND DOMESTIC CONSUMPTION OF SMOKED FISH, CANADA, CALENDAR YEAR 1947

SPECIES	Canadian Production (Product Weight)	Domestic (Product Weight)	Consumption (Edible Weight)
	(cwt)	(cwt)	(cwt)
Cod, split	15,032	9,912	6,344
Cod, filleted	54,747	41,224	46,583
Haddock, split	8,165	2,437	1,560
Haddock, filleted	1,203	1,646	1,860
Herring	121,235(1)	- (1)	- (1)
Salmon	3,743	443	310
Other sea fish	6,094	4,305	3,229
TOTAL	210,216	59,967	59,886

<sup>(1)</sup> The production figure available for smoked herring had to be raised by 7,217 cwt to cover for adjusted stocks and exports; as noted for the previous years, there is reason to believe that some herring is smoked after it has been reported as frozen, amounting to an unknown quantity; however the domestic consumption of smoked herring, mainly kippered, is of some importance in Canada.

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TABLE 5 .- PRODUCTION AND DOMESTIC CONSUMPTION OF SALTED, DRIED AND PICKLED FISH, CANADA, CAJENDAR YEAR 1947

SPECIES	Vanadian Production (Product Weight)	(Product Weight)	Consumption (Edible Weight)
SALTED AND DRIED (1)	(cwt)	(cwt)	(cwt)
Cod, split and fillets	351,382	24,743	30,928
Haddock, split	2,682	872	1,090
Other Groundfish, split	94,839	5,543	6,928
Other Groundfish, fillets	1,217	1,039	1,403
TOTAL (salted and dried)	450,120	32,197	40,349
PICKIED			
Herring and sardines (2)	161,052	40,738	37,877
Mackerel	112,532	7,180	6,318
Alewives (2)	56,184	18,371	15,983
Salmon (mild cured)	15,030	5,548	3,440
TOTAL (pickled)	344,795	71,837	63,618

<sup>(1)</sup> Adjusted to a dried basis for "production" and "product weight".
(2) Pickled and vinegar cured fish.

TABLE 6.- PRODUCTION AND DOMESTIC CONSUMPTION OF CANNED FISH, CANADA, CALENDAR YEAR 1947

SPECIES	Canadian Production (Prod. Weight) (cwt)	Domestic Consumption (1) (Prod. and Ed. W.) (cwt)
Herring and sardines	947,481	100,942
Pilchards	1,120	894
Salmon	722,263	358,734
Lobsters	28,711	5,876
Other sea fish	172,890	36,886
TOTAL	1,872,405	503,332

<sup>(1)</sup> We have reason to believe that the exports of canned fish as shown in export statistics do not represent the "net weight" of the products as the weight of cans and boxes appear to be included. The correction that would allow for adjustment is unknown but it may be noted that a 10% reduction of exports for adjustment to reach net weight of the product would mean reducing the exports by 155,150 cwt and show equivalent increase in domestic consumption of canned product.

TABLE 7. SUMMARY OF THE CALCULATION OF THE DOMESTIC CONSUMPTION OF FISH, BY GROUPS OF PRODUCTS,

		CANA DA,	CANATA, CALFNDAR YE	YEAR 1947				
			- Application of the control of the					Per Caput
	Canadian	Stocks	KS			Can. supply	4/	Consumption
	Production	Berinning	End	Foreign Trade	Trade	(Product	(Edible	(Edible
		of year	of year	Exports	Imports	Weight)	Weight)	Weight)
	(1000 lb)	(1000 1P)	(1000 1P)	(1000 1P)	(1000 15)	(,000 19)	(1000 lb)	(lbs a year)
Fresh and frozen sea fish- (round or dressed)	205,068	26,795	27,207	125,574	4,968	84,050	37,736	3.00
Fresh and frozen sea fish- (filleted)	33,476	6,872	3,132	21,562	2,073	17,727	17,727	1.41
Fresh and frozen fresh-water fish	77,808	4,548	2,143	56,169	1	24,044	10,299	0.82
Fresh and frozen shellfish	22,281	209	128	18,745	2,773	17,490	3,379	0.27
Smoked fish	21,021	6,556	8,008	13,674	100	5,996	5,989	0.48
Salted and dried fish (1)	45,012	14,938	15,972	43,196	2,438	3,220	4,035	0.32
Pickled fish (2)	34,480	4,056	122,8	25,503	2,481	7,184	6,362	0.51
Canned, fish and shellfish	187,241	52,345	36,585	155,150	2,482	50,333	50,333	4.00
TOTAL	637,487	116,319	101,506	459,573	17,315	210,044	135,859	10.80

(1) Wet-salted fish has been adjusted to a dried basis. (2) Pickled and vinegar cured.

### V APPENDIX

## 1. Product weight for cases of canned fish.

	Ordinary pack (cases)	Weight of product (lbs.)
Cod, Haddock, Hake, Pollock and Cusk Canned	(48, 14 oz)	71,71
Salmon	(48,1 lb.)	48
Herring	(48, 15oz.)	45
Herring Kippered Snacks	(96, 50z.)	30
Sardines	$(100, 3\frac{1}{2}oz.)$	22
Pilchards	$(48, 15\frac{1}{2} \text{ oz.})$	48
Mackerel	(48, 15oz.)	ħ8
Lobsters	(48, 12oz.)	42
Clams	(48, 50z.)	30
Other Shellfish		30
Factors of conversion used to c	alculate the "edibl	e weight"

# 2. Factors of conversion used to calculate the "edible weight" of fish products.

### God and Haddock -

Fresh and frozen, dressed	0.45
Fresh and frozen, filleted	1.00
Smoked, split	0.64
Smoked, filleted	1.13
Dried and salted (on dried basis)	1.25
Salted fillets (on dried basis)	1.35

### Halibut -

F	resh	and	frozen,	round	0.40
F	resh	and	frozen,	filleted	1.00
P	ickle	ed			1.25
Salmon	n =				

Fresh and frozen, round	0.48
Smoked	0.70
Pickled (mild cured)	0.62
Canned	1.00

Mackerel -	
Fresh and frozen, round	0.50
Pickled	0.88
Herring and Sardines -	
Fresh and frozen, round	0.50
Smoked	1.00
Pickled and vinegar cured	0.93
Canned	1.00
Pilchard -	
Canned	1.00
Lobster	
Fresh (in shell)	0.28
Canned	1.00
Other Shellfish -	
Fresh (in shell)	0.17
Canned	1.00
Cther Sea Fish -	
Fresh and frozen, round	0.40
Fresh and frozen, filleted	1.00
Smoked	0.75
Dried and salted (on dried basis)	1.25
Salted fillets (on dried basis)	1.35
Pickled and vinegar cured	0.87
Canned	1.00
Fresh-water Fish -	
Lake Trout, round	0.37
Tullibee, round	0.44
Whitefish, round	0.45
Other, round	0.42
4	A

Note - The factors used sometimes take into account the type of cure of the product that is consumed in Canada.

Smoked (all kinds) 0.70

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